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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/972,797 | 10/09/2001 | Dave Stuttard | 032658-018 | 3642 |

22862 7590 06/01/2006

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| EXAMINER |
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HUISMAN, DAVID J

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| ART UNIT | PAPER NUMBER |
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2183

DATE MAILED: 06/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

1. Claims 71-74 and 199-205 have been examined.

Papers Submitted

2. It is hereby acknowledged that the following papers have been received and placed of record in the file: Response to Restriction as received on 3/17/2006.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the all of the details of claims 71-74 and 200-205 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must

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be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claim 71 is objected to because of the following informalities: In line 7, applicant uses the phrase "which information." The use of the word "which" in this context does not appear to be grammatically correct and the examiner is not clear as to what it means. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 71-74 and 200-205 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a) More specifically, claims 71-73 all refer to an “apparatus as claimed in claim 1”.

However, claim 1 is no longer part of the examined claims. Please insert the contents of claim 1 into each of claims 71-73. For purposes of examination, claims 71-73 will be interpreted as including the specifics of claim 1. Furthermore,

b) without claim 1 copied into claim 71, there is a lack of antecedent basis for “the plurality of processing elements” in line 5.

c) without claim 1 copied into claim 72, there is a lack of antecedent basis for “the array” which appears throughout the claim.

d) without claim 1 copied into claim 73, there is a lack of antecedent basis for “the array” which appears throughout the claim.

e) Claim 200 recites the limitation “the array” which appears throughout the claim. There is insufficient antecedent basis for this limitation in the claim.

f) Claim 201 recites the limitation “the required data” in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

g) Claim 202 recites the limitation “the required data” in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

h) Claim 203 recites the limitation “the array” which appears throughout the claim. There is insufficient antecedent basis for this limitation in the claim.

i) Claim 205 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, the dependency of the claim is unclear and it will be interpreted as being dependent on claim 204.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 71 and 199 are rejected under 35 U.S.C. 102(b) as being anticipated by

Grondalski, U.S. Patent No. 5,230,079.

10. Referring to claim 71, Grondalski has taught a method of controlling data read access to memory in a data processing apparatus comprising a SIMD (single instruction multiple data) array of processing elements, wherein the processing elements are operably divided into a plurality of processing blocks, the processing blocks being operable to process respective groups of data items (see Fig.3, and note that the background section talks about SIMD processors), the method comprising:

a) selecting a processing element that requires access to the memory. See column 21, lines 42-66.

b) retrieving a target address from the selected processing element. See column 21, lines 42-66.

c) transmitting the target address to the plurality of processing elements. See column 21, lines 42-66. Note that an address may be sent in a message from one PE to another.

d) transmitting transaction identification information to the processing elements, which information identifies the target address access operation concerned. See column 21, lines 42-

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66. Clearly, an address alone does not specify whether a load or store is to occur. Some information must be relayed as to whether a load or store at that address must occur.

e) storing the transaction identification information in the or each processing element that requires access to the target address. See column 21, lines 42-66.

f) transmitting data obtained from the target address together with the transaction identification information to the plurality of processing elements. See column 21, lines 42-66.

g) storing the obtained data in the or each processing element in which the transaction identification information is stored. See column 21, lines 42-66.

11. Referring to claim 199, claim 199 is rejected for the same reasons set forth in the rejection of claim 71 above.

Conclusion

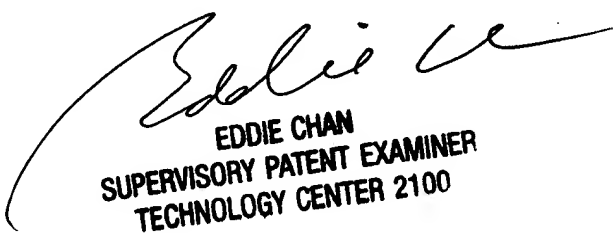
Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Huisman whose telephone number is (571) 272-4168. The examiner can normally be reached on Monday-Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJH
David J. Huisman
May 23, 2006



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SUPERVISORY PATENT EXAMINER
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